

ART. XXV.—*On some new Fishes.* By F. E. CLARKE.

Plates XIV. and XV.

[*Read before the Westland Institute, 16th July, 1878.*]*Trypterigium dorsalis.* Pl. XV.

B.6, D.4-19-12, P. 8 branched, 7 simple, V.2, A.25, C.13.

Head is to total length as 4 is to 19.

Total length, 5.1 inches; length of caudal fin, .65 inch; length of head, 1.1 inch.

Length of 1st portion dorsal, .6 inch—extreme height, 3rd ray, .35 inch

" 2nd " " 1.9 " " " 12th " .6 "

" 3rd " " .9 " " " 4th " .63 "

" anal " " 1.9 " " " 22nd " .48 "

" pectoral, 9th ray 1.15 "

" ventrals, 1st ray .55 "

Longest diameter orbit of eye .3 "

Shortest do. .17 "

Distance from commencement ventrals to do. anal, 1.2 in.

Termination of bases 3rd portion of dorsal and anal fins in same vertical, and 0.4 in. from commencement of caudal fin; commencement of 1st portion of dorsal fin slightly behind vertical from posterior margin of preoperculum, at terminal portion fin-membrane connected half-way up 1st ray of 2nd dorsal; fin-membrane at termination of second dorsal connected with 1st ray of 3rd dorsal; gill openings very large, branchiostegous rays very strong; rays of ventral exceedingly fleshy; lower simple rays of pectorals also strong and fleshy; body covered with small ctenoidal scales, arranged in well-marked transverse series; lateral line running low down on side with concavity towards dorsal aspect, *plainly marked from commencement to caudal fin.* Head, throat, base of pectorals, gill-covers, and cheeks scaleless. Summit of head dotted with numerous papillæ; portion of back, of a breadth of 0.1 in. on each side of and along base of dorsal fins, devoid of scales, division between scaled and scaleless portion being very harshly marked; eyes, oval medium, with strong supra-orbicular ridges; portion of forehead between eyes, narrow and grooved; profile almost vertical, cheeks wide and deep, and slightly flattened; body broad, rounded, thick, and fleshy, but elongate; mouth small, underhung, with fleshy lips, upper protruding beyond lower; nostrils single, very minute, close below eye, and with tubular orifice; no crests; tongue fleshy. Female fish, ova fully developed.

Ground colour of body, head and fins, brownish; and sides with yellowish tinge, mottled and spotted with darker, verging into banded appearance near tail; pupil of eye black, iris brown, with yellow ring round pupil.

Captured at mouth of Hokitika, 26th January, 1871, and presented by Mr. Moss Levy.

Trypterigium decemdigitatus. Pl. XV.

B.6, D.3-19-14, P.3-6-9, V.2, A.29, C.13.

Scales: lin. lat., 43; lin. trans. $\frac{4}{9}$.

Lateral line, convex, very prominent and plainly marked to near caudal (over 34 scales), when it ends abruptly, it follows general slope of dorsal aspect, high up on body; head is to total length as 1 is to 5; depth is to body and tail as 5 is to 27.

Teeth recurved, small, with row of larger (cardiform) outside on upper and lower jaws; teeth on vomer; tongue thin, sharp-pointed; caudal fin large, rounded; scales large, ctenoid, continuous to base of dorsal fins; none on head, cheeks, gill-covers, bases of pectorals or throat; eyes large and round; orbicular ridges hidden in substance; a supra-orbital fringed palmiform, tentacle—decemfid—on simple base stalk; trifid tentacle at nostril; upper jaw protrudes slightly beyond lower when mouth is closed—when open, lower jaw is longest; head small, profile sharp and sloping, top of head and snout very much rounded, muzzle pointed; commencement of first portion of dorsal fin in vertical with margin of pre-operculum and base of ventrals, terminating membrane of same joins with second portion at base of first ray; commencement of second portion in vertical with base of pectoral fins, terminating membrane of same joins first ray of third portion a little distance up ray; ventral fin rays slight but long; a strong papilla at anus; bases of rays of first portion of dorsal fin very close together, and far separate from the commencement of second portion of dorsal; termination of third portion of dorsal in vertical with termination of anal fin; head and gill-covers with numerous pores; nostrils double, one close to edge of orbit, the second lower and with tentacle; back and belly rounded, sides and tail flattened.

Total length, 3.2 inches; depth, .42 inches; length of head, .65 inches; diameter of eye, .15 inches.

Length of 1st portion of dorsal	.35 inch—	extreme height of 3rd ray	.45 inch
„ 2nd „ „	1.1 „ „	7th „	.35 „
„ 3rd „ „	.63 „ „	4th „	.4 „
„ anal	1.35 „ „	24th „	.35 „
„ caudal	.45	distance from snout to ventral fins	.5 „
„ pectorals (12th ray)	.65	ditto from ventrals to anal	.7 „
„ ventrals (2nd do.)	.5	{ ditto from end of anal and dorsal } fins to the commencement of } caudal	.2 „

Colour (preserved in carbolic solution), sooty black; tips of anal fin rays and membranes between (central) caudal fin rays, almost immaculate.

Collected by Mr. Wm. Docherty, Dusky Sound, March 1877.

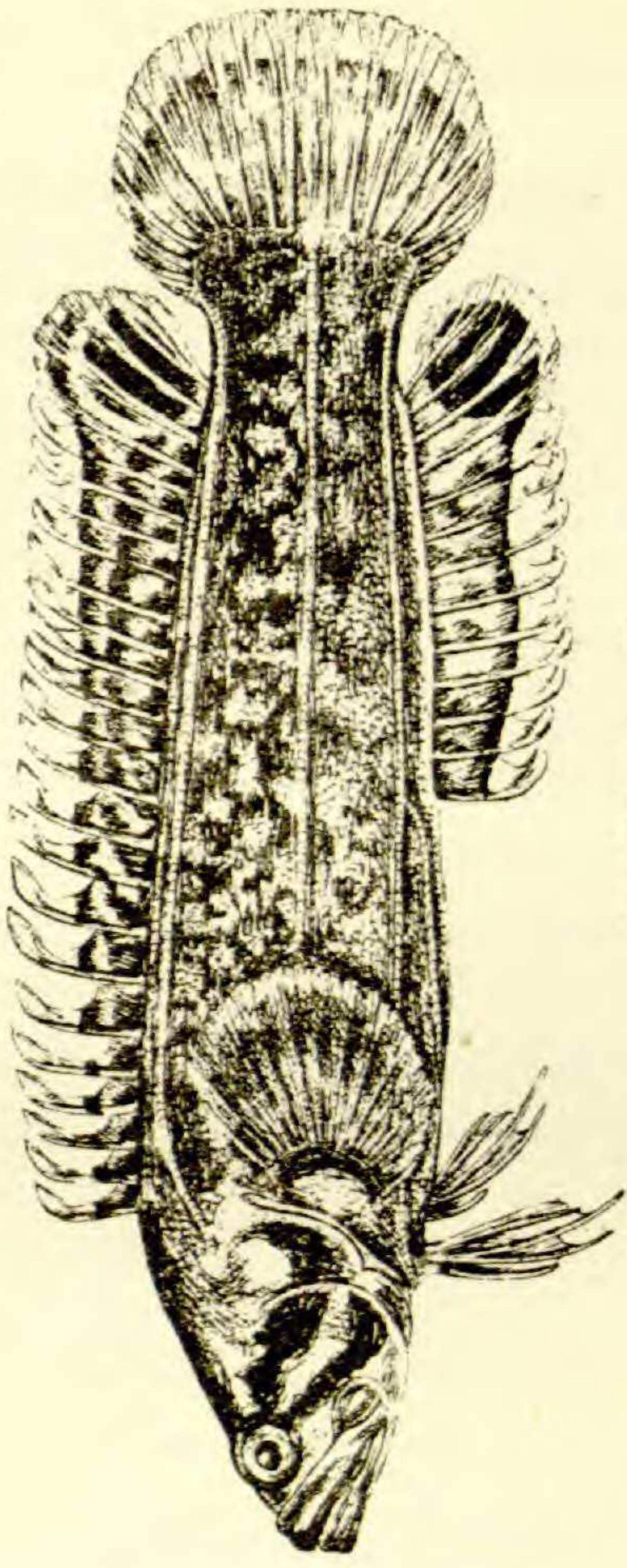
Trypterigium robustum. Pl. XV.

B.6, D.6-20-14, P.1-9-7, V.2, A. 28, C. 16.

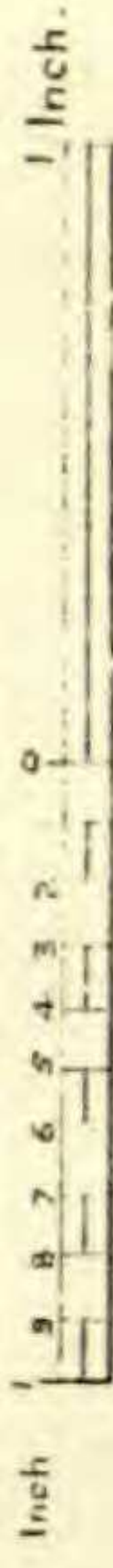
Head is to total length as 1 is to 4.



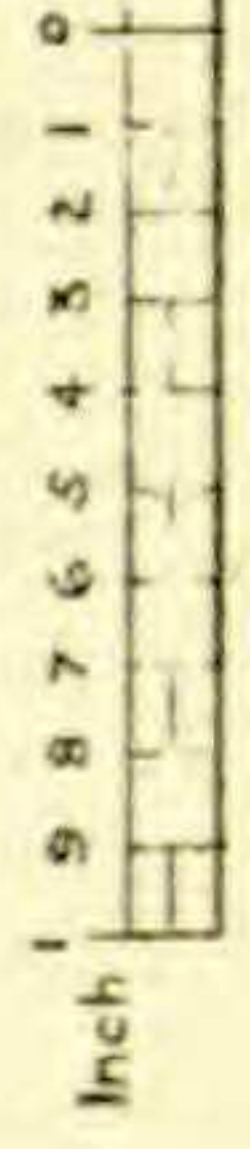
T. Robustum.



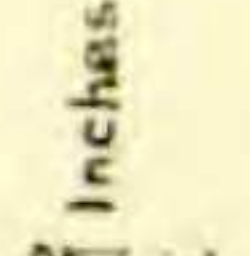
Acanthoelinus Taumaka.

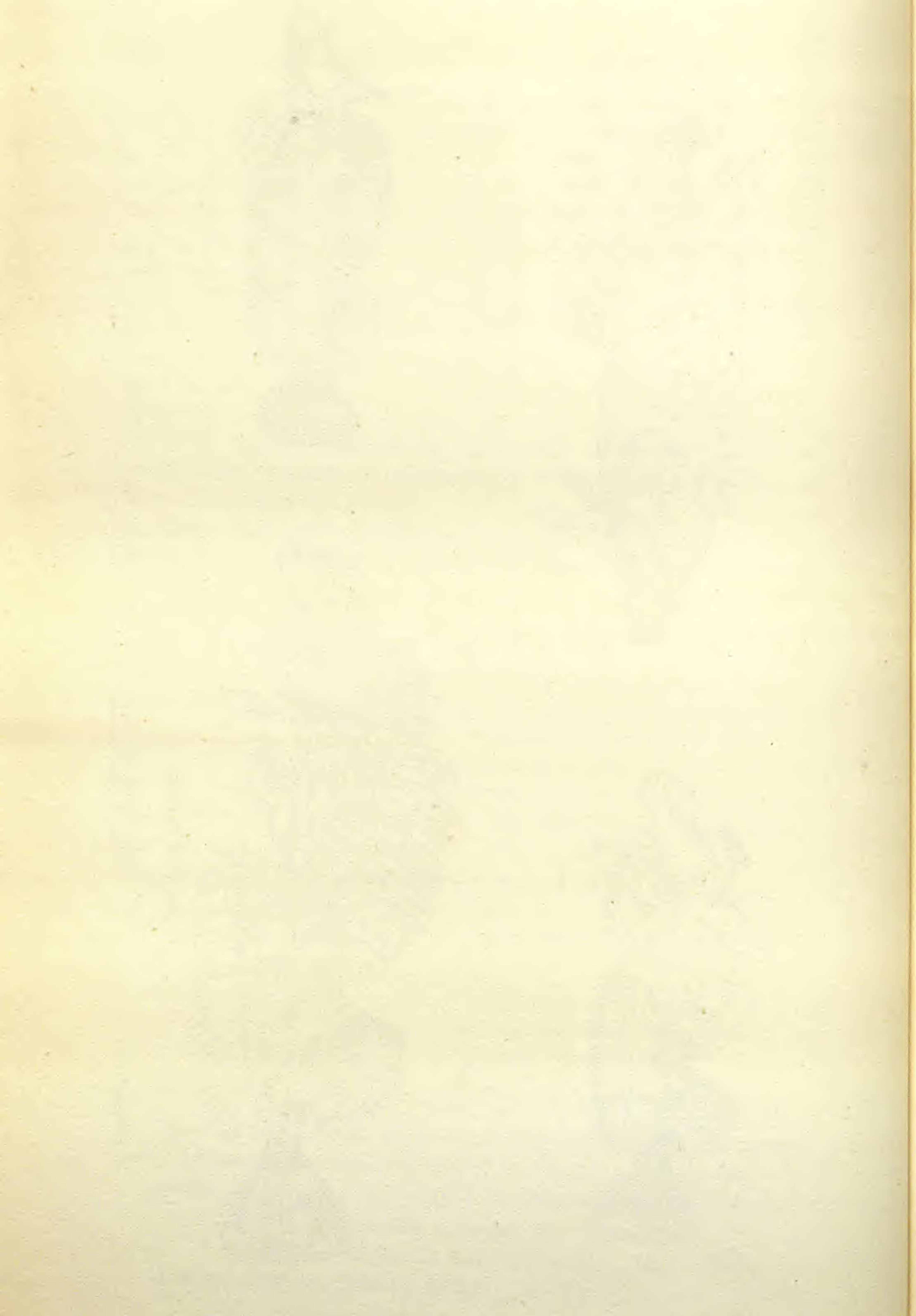


Trypterigium Dorsalis.



T. Decemdigitatus.





Scales large, ctenoidal; head, cheeks, gill-covers, scaleless; eyes, large, oval; with trifid supra-orbital tentacle; nostrils double, one close in front of eye, simple, the other lower down, tubular; lips fleshy; profile of head high, but round; top of head round, nose round, blunt; supra-orbital ridges not very prominent, but fleshy; lateral line prominent, following dorsal profile, high up on sides, and terminating suddenly under last third of 2nd portion of dorsal; 1st portion of dorsal, very low; bases of 1st and 2nd rays close together, terminating portion of membrane joins 1st ray of 2nd portion of dorsal a little above base; 2nd portion of dorsal high anteriorly; membrane at termination does not reach to commencement of 3rd portion of dorsal; 3rd portion of dorsal high; belly tumid; body, thick fleshy, sharp on back, rounded below:—

Total length, 3.35 inches; length of head, .8 inch.

Length, 1st part dorsal,	.45 inch—extreme height,	4th ray,	.25 inch.
„ 2nd „ „	1.25 „ „ „	2nd „	.38 „
„ 3rd „ „	.55 „ „ „	3rd „	.4 „
„ anal, „	1.27 „ „ „	17th „	.33 „
„ caudal, „	.45 „ ext. ht. of pectoral,	11th „	.76 „
Longest diameter eye,	.2 „		
Shortest „ „	1.5 „		
Distance from snout to ventral fin,	.55 inch		
„ „ ventral fin to anal fin,	.8 inch		
„ „ end of anal (in vertical with end of dorsal) to beginning of caudal fin,	.27 inch.		
„ between 2nd and 3rd portion of dorsal fin,	.05 inch.		

Ground colour (preserved in carbolic solution) brownish, with dark brown blotches on back, surrounding seven light patches or spots, four of which run up on to base of second portion of dorsal; upper part of first portion of dorsal very dark, anal fin greyish, with dark brown free margin; belly grey; pupil of eye black, iris brown.

Collected at Jackson's Bay, December, 1874, and presented by J. S. Browning, Esq.

Acanthoclinus taumaka. Pl. XV.

B.6, D.20-4, P.1-17, V. 1-2, A.9-4, C.19.

Head is to total length as 5 is to 21.

Total length,	4.3 inches; length of head,	1 inch; depth of body,	.8 inch
Length of dorsal,	2.3 inches—extreme height,	21st ray,	.55 inch
„ anal,	1.15 „ „ „	11th „	.55 „
„ pectoral,	.5 „		
„ ventral (2nd ray)	.65 „		
„ caudal,	.6 „		

Teeth on tongue, vomer, palatines upper and lower jaws.

Lateral lines as in generic distinctions. Head small and pointed, but with nose (in profile) slightly truncated, rounded above, flattish below;